

Equation 4.2.1-4  $\dot{Q}_h(T_j) = \begin{cases} \dot{Q}_h(17) + \frac{[\dot{Q}_h(47) - \dot{Q}_h(17)] * (T_j - 17)}{47 - 17}, & \text{if } T_j \geq 45 \text{ }^\circ\text{F or } T_j \leq 17 \text{ }^\circ\text{F} \\ \dot{Q}_h(17) + \frac{[\dot{Q}_h(35) - \dot{Q}_h(17)] * (T_j - 17)}{35 - 17}, & \text{if } 17 \text{ }^\circ\text{F} < T_j < 45 \text{ }^\circ\text{F} \end{cases}$

Equation 4.2.1-5

$$\dot{E}_h(T_j)$$

$$= \begin{cases} \dot{E}_h(17) + \frac{[\dot{E}_h(47) - \dot{E}_h(17)] * (T_j - 17)}{47 - 17}, & \text{if } T_j \geq 45 \text{ }^\circ\text{F or } T_j \leq 17 \text{ }^\circ\text{F} \\ \dot{E}_h(17) + \frac{[\dot{E}_h(35) - \dot{E}_h(17)] * (T_j - 17)}{35 - 17}, & \text{if } 17 \text{ }^\circ\text{F} < T_j < 45 \text{ }^\circ\text{F} \end{cases}$$